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L2	4	I1 and (casein kinase I) or (casein kinase 1)	US-PGPUB; USPAT	ADJ	OFF	2007/06/08 18:52
L3	2	I2 and (p21 or waf1 or cip1)	US-PGPUB; USPAT	ADJ	OFF	2007/06/08 18:54



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A new hypothesis on the role of c-erbB2 oncogene in the progress of breast cancer.
Bull Exp Biol Med. 2006 Jul;142(1):94-7. English, Russian.
PMID: 17369913 [PubMed - indexed for MEDLINE]

2: Liu JJ, Huang BH, Zhang J, Carson DD, Hooi SC.

Related Articles, Links

Repression of HIP/RPL29 expression induces differentiation in colon cancer cells.
J Cell Physiol. 2006 May;207(2):287-92.
PMID: 16475173 [PubMed - indexed for MEDLINE]

3: Baba M, Wada J, Eguchi J, Hashimoto I, Okada T, Yasuhara A, Shikata K, Kanwar YS, Makino H.

Related Articles, Links

Galectin-9 inhibits glomerular hypertrophy in db/db diabetic mice via cell-cycle-dependent mechanisms.
J Am Soc Nephrol. 2005 Nov;16(11):3222-34. Epub 2005 Sep 21.
PMID: 16177004 [PubMed - indexed for MEDLINE]

4: Fischer C, Sanchez-Ruderisch H, Welzel M, Wiedenmann B, Sakai T, Andre S, Gabius HH, Khachigian L, Detjen KM, Rosewitz S.

Related Articles, Links

Galectin-1 interacts with the $\{\alpha\}5\{\beta\}1$ fibronectin receptor to restrict carcinoma cell growth via induction of p21 and p27.
J Biol Chem. 2005 Nov 4;280(44):37266-77. Epub 2005 Aug 16.
PMID: 16105842 [PubMed - indexed for MEDLINE]

5: Arbel-Goren R, Levy Y, Ronen D, Zick Y.

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Cyclin-dependent kinase inhibitors and JNK act as molecular switches, regulating the choice between growth arrest and apoptosis induced by galectin-8.
J Biol Chem. 2005 May 13;280(19):19105-14. Epub 2005 Mar 7.
PMID: 15753078 [PubMed - indexed for MEDLINE]

6: Rawal S, Majumdar S, Vohra H.

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Activation of PKM kinase pathway by Gal/GalNAc adherence lectin of *E. histolytica*: gateway to host response.
Mol Cell Biochem. 2005 Jan;268(1-2):93-101.
PMID: 15724442 [PubMed - indexed for MEDLINE]

7: Yoshii T, Fukumori T, Honjo Y, Inohara H, Kim HR, Raz A.

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Galectin-3 phosphorylation is required for its anti-apoptotic function and cell cycle arrest.
J Biol Chem. 2002 Mar 1;277(9):6852-7. Epub 2001 Nov 27.
PMID: 11724777 [PubMed - indexed for MEDLINE]

8: Yamazaki K, Kawai A, Kawaguchi M, Hibino Y, Li F, Sasahara M, Tsukada K, Hiraga K.

Related Articles, Links

Simultaneous induction of galectin-3 phosphorylation on tyrosine residue, p21(WAF1/Cip1/Sdi1), and the proliferating cell nuclear antigen at a distinctive period of repair of hepatocytes injured by CCl4.
Biochem Biophys Res Commun. 2001 Feb 2;280(4):1077-84.
PMID: 11162637 [PubMed - indexed for MEDLINE]

9: Lin HM, Moon BK, Yu F, Kim HR.

Related Articles, Links



Galectin-3 mediates genistein-induced G(2)/M arrest and inhibits apoptosis.

Carcinogenesis, 2000 Nov;21(11):1941-5.

PMID: 11062152 [PubMed - indexed for MEDLINE]



10: Kim HR, Lin HM, Bilezikian H, Raz A,

Related Articles, Links



Cell cycle arrest and inhibition of anoikis by galectin-3 in human breast epithelial cells.

Cancer Res. 1999 Aug 15;59(16):4148-54.

PMID: 10463621 [PubMed - indexed for MEDLINE]

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Nuclear export of phosphorylated galectin-3 regulates its antiapoptotic activity in response to chemotherapeutic drugs.
Mol Cell Biol. 2004 May;24(10):4395-406.
PMID: 15121858 [PubMed - indexed for MEDLINE]

2: [Yoshii T, Fukumori T, Honjo Y, Inohara H, Kim HR, Raz A.](#) Related Articles, Links

Galectin-3 phosphorylation is required for its anti-apoptotic function and cell cycle arrest.
J Biol Chem. 2002 Mar 1;277(9):6852-7. Epub 2001 Nov 27.
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3: [Mazurek N, Conklin J, Byrd JC, Raz A, Bresalier RS.](#) Related Articles, Links

Phosphorylation of the beta-galactoside-binding protein galectin-3 modulates binding to its ligands.
J Biol Chem. 2000 Nov 17;275(46):36311-5.
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4: [Gong HC, Honjo Y, Nangia-Makker P, Hogan V, Mazurak N, Bresalier RS, Raz A.](#) Related Articles, Links

The NH2 terminus of galectin-3 governs cellular compartmentalization and functions in cancer cells.
Cancer Res. 1999 Dec 15;59(24):6239-45.
PMID: 10626818 [PubMed - indexed for MEDLINE]

5: [Huflejt ME, Turck CW, Lindstedt R, Barondes SH, Leffler H.](#) Related Articles, Links

L-29, a soluble lactose-binding lectin, is phosphorylated on serine 6 and serine 12 in vivo and by casein kinase I.
J Biol Chem. 1993 Dec 15;268(35):26712-8.
PMID: 8253806 [PubMed - indexed for MEDLINE]

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J Biol Chem. 2002 Mar 1;277(9):6852-7. Epub 2001 Nov 27.
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 Common and reversible regulation of wild-type p53 function and of ribosomal biogenesis by protein kinases in human cells.
Oncogene. 2001 Sep 20;20(42):5951-63.
 PMID: 11593402 [PubMed - indexed for MEDLINE]
- 3: [Romero-Oliva F, Allende JE.](#) Related Articles, Links
 Protein p21(WAF1/CIP1) is phosphorylated by protein kinase CK2 in vitro and interacts with the amino terminal end of the CK2 beta subunit.
J Cell Biochem. 2001;81(3):445-52.
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- 4: [Schuster N, Prowald A, Schneider E, Scheidtmann KH, Montenarh M.](#) Related Articles, Links
 Regulation of p53 mediated transactivation by the beta-subunit of protein kinase CK2.
FEBS Lett. 1999 Mar 26;447(2-3):160-6.
 PMID: 10214938 [PubMed - indexed for MEDLINE]
- 5: [Korn J, Gutkind S, Srinivasan N, Blundell TL, Allende CC, Allende JE.](#) Related Articles, Links
 Interactions of protein kinase CK2 subunits.
Mol Cell Biochem. 1999 Jan;191(1-2):75-83.
 PMID: 10094395 [PubMed - indexed for MEDLINE]
- 6: [Golay J, Broccoli V, Borler GM, Erba E, Faretta M, Basilico L, Ying GG, Piccinini G, Shapiro LH, Lovric J, Nawrath M, Molling K, Rambaldi A, Introna M.](#) Related Articles, Links
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Cell Growth Differ. 1997 Dec;8(12):1305-16.
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The carboxy terminus of p53 mimics the polylysine effect of protein kinase CK2-catalyzed MDM2 phosphorylation.
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Anticancer Res. 2004 Sep-Oct;24(5A):2783-840. Review.
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Galectin-3 phosphorylation is required for its anti-apoptotic function and cell cycle arrest.
J Biol Chem. 2002 Mar 1;277(9):6852-7. Epub 2001 Nov 27.
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Binding domain for p21(WAF1) on the polypeptide chain of the protein kinase CK2 beta-subunit.
Biochem Biophys Res Commun. 2000 Feb 24;268(3):882-5.
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- 6:** [Schuster N, Prowald A, Schneider E, Scheidtmann KH, Montenarh M.](#) Related Articles, Links
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□ Interactions of protein kinase CK2 subunits.

Mol Cell Biochem. 1999 Jan;191(1-2):75-83.

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□ 22: [Chantalat L, Leroy D, Filhol O, Quitaine N, Chambaz EM, Cochet C, Dideberg O.](#)

Related Articles, Links

□ Crystallization and preliminary x-ray diffraction analysis of the regulatory subunit of human protein kinase CK2.

Acta Crystallogr D Biol Crystallogr. 1999 Apr;55(Pt 4):895-7.

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□ 23: [Westphal RS, Coffee RL Jr, Marotta A, Pelech SL, Wadzinski BE.](#)

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□ Identification of kinase-phosphatase signaling modules composed of p70 S6 kinase-protein phosphatase 2A (PP2A) and p21-activated kinase-PP2A.

J Biol Chem. 1999 Jan 8;274(2):687-92.

PMID: 9873003 [PubMed - indexed for MEDLINE]

□ 24: [Enan E, El-Sabeawy F, Scott M, Overstreet J, Lasley B.](#)

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□ Alterations in the growth factor signal transduction pathways and modulators of the cell cycle in endocervical cells from macaques exposed to TCDD.

Toxicol Appl Pharmacol. 1998 Aug;151(2):283-93.

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 Repression of p53 transcriptional activity by the HPV E7 proteins.
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J Biol Chem. 1996 Apr 26;271(17):9955-61.
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- [30: Fiscella M, Zambrano N, Ullrich SJ, Unger T, Lin D, Cho B, Mercer WE, Anderson CW, Appella E](#) Related Articles, Links
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Oncogene. 1994 Nov;9(11):3249-57.
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 Identification of casein kinase II phosphorylation sites in Max: effects on DNA-binding kinetics of Max homo- and Myc/Max heterodimers.
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 PMID: 8247525 [PubMed - indexed for MEDLINE]
- [32: Prendergast GC, Hopewell R, Gorham BJ, Ziff EB](#) Related Articles, Links
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Genes Dev. 1992 Dec;6(12A):2429-39.
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- [33: Yang-Feng TL, Zheng K, Kopatz I, Naiman T, Canaani D](#) Related Articles, Links
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- [34: Yang-Feng TL, Teitz T, Cheung MC, Kan YW, Canaani D](#) Related Articles, Links
 Assignment of the human casein kinase II beta-subunit gene to 6p12----p21.
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